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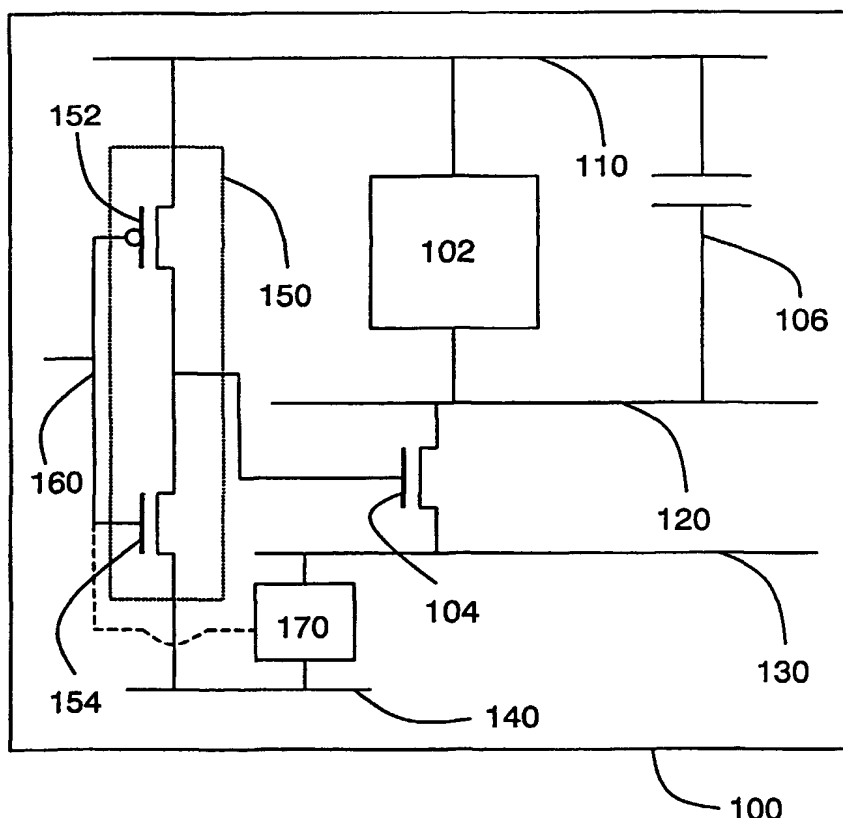
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[Continued on next page]

(54) Title: **INTERGRATED CIRCUIT AND BATTERY POWERED ELECTRONIC DEVICE**

(57) Abstract: An integrated circuit (100) has a circuit portion (102) that can be switched to a standby mode through an enable transistor (104), which is coupled between an internal power supply line (120) and an external power supply line (130). The enable transistor (104) is controlled by control circuitry via a control line (160). The control line (160) is coupled to the gates of a first transistor (152) and a further transistor (154) of a logic gate (150). The substrate of the further transistor (154) is coupled to a backbias generator (170). Consequently, when the enable transistor (104) is switched off, the further transistor (154) is enabled and applies a substantial backbias to the gate of the enable transistor (104), thus dramatically reducing the leakage current from the circuit portion (102) through the enable transistor (104).



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## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H03K19/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 225 852 B1 (KIM YONG ET AL) 1 May 2001 (2001-05-01) column 2, line 17 -column 6, line 49; figures 1-4	1,3
A	EP 0 690 510 A (NIPPON TELEGRAPH & TELEPHONE) 3 January 1996 (1996-01-03) page 6, line 40 -page 7, line 5; figures 8-9B	1-3
A	WO 00 67380 A (INTEL CORP ;MCDANIEL BART R (US); CLARK LAWRENCE T (US)) 9 November 2000 (2000-11-09) page 4, line 13 -page 9, line 10; figures 1,2	1-3

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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WO 0067380	A	09-11-2000	US 6166985 A 26-12-2000 AU 4481000 A 17-11-2000 CN 1354908 T 19-06-2002 DE 10084545 T0 11-04-2002 GB 2363685 A 02-01-2002 JP 2002543731 T 17-12-2002 WO 0067380 A1 09-11-2000